1. Record Nr. UNINA9910484787003321

Titolo	Advances in Heat Transfer and Thermal Engineering : Proceedings of 16th UK Heat Transfer Conference (UKHTC2019) / / edited by Chuang Wen, Yuying Yan
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021
ISBN	981-334-765-1
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XX, 914 p. 410 illus., 347 illus. in color.)
Disciplina	621.4022
Soggetti	Thermodynamics Heat engineering Heat transfer Mass transfer Electric power production Microtechnology Microelectromechanical systems Fluid mechanics Engineering Thermodynamics, Heat and Mass Transfer Electrical Power Engineering Mechanical Power Engineering Microsystems and MEMS Engineering Fluid Dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Single phase heat transfer -- Boiling, evaporation and condensation -- Computational heat transfer -- Multi-phase flow -- Cooling of electronics and other high heat flux devices -- Heat pipes -- Thermal management -- Air-conditioning and refrigeration -- Gas turbines, engines, combustion -- Heat exchangers -- Enhanced heat transfer -- Environmental heat transfer -- Heat transfer at micro and nano scale -- Nanofluids -- Porous media -- Energy recovery and heat integration -- Heat transfer and thermodynamics for automotive industry -- Heat transfer for aerospace -- Nature inspired solutions of flow and heat

transfer -- Drying -- Heat transfer technology for sustainable energy.

Sommario/riassunto

This book gathers selected papers from the 16th UK Heat Transfer Conference (UKHTC2019), which is organised every two years under the aegis of the UK National Heat Transfer Committee. It is the premier forum in the UK for the local and international heat transfer community to meet, disseminate ongoing work, and discuss the latest advances in the heat transfer field. Given the range of topics discussed, these proceedings offer a valuable asset for engineering researchers and postgraduate students alike.